

PATENT COOPERATION TREATY
PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference WBH/PART STR	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/ GB 03/ 03949	International filing date (day/month/year) 11/09/2003	(Earliest) Priority Date (day/month/year) 12/09/2002
Applicant ARTEMIS INTELLIGENT POWER LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
 - contained in the international application in written form.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority in written form.
 - furnished subsequently to this Authority in computer readable form.
 - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

1 _____

None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/03949

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 F04B49/06 F04B53/10 F04B7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 494 236 B (UNIV EDINBURGH) 15 July 1992 (1992-07-15) cited in the application column 2, line 4 -column 2, line 8 column 3, line 11 -column 4, line 12 column 6, line 8 -column 6, line 35 column 7, line 35 -column 7, line 42; claims 1,8; figures ----	1-10
A,P	EP 1'319 836 A (CATERPILLAR INC) 18 June 2003 (2003-06-18) column 9, line 50 -column 11, line 29 column 11, line 58 -column 12, line 14; figures 1,3 ----	1-10
A	EP 0 501 463 A (NIPPON DENSO CO) 2 September 1992 (1992-09-02) abstract; figures 1,3,4 ----	1-10

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

26 November 2003

02/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
 Fax: (+31-70) 340-3016

Authorized officer

Pinna, S

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/03949

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
EP 0494236	B	15-07-1992	EP 0494236 A1 AU 6507990 A DE 69024223 D1 DE 69024223 T2 ZA 9007810 A AU 639213 B2 AU 4499089 A AU 641438 B2 DE 68917066 D1 DE 68917066 T2 EP 0361927 A1 WO 9003519 A1 WO 9105163 A1 JP 4501294 T JP 5503335 T NZ 230801 A US 5190446 A US 5259738 A ZA 8907398 A	15-07-1992 28-04-1991 25-01-1996 04-07-1996 27-05-1992 22-07-1993 18-04-1990 23-09-1993 01-09-1994 19-01-1995 04-04-1990 05-04-1990 18-04-1991 05-03-1992 03-06-1993 25-06-1992 02-03-1993 09-11-1993 29-05-1991
EP 1319836	A	18-06-2003	US 2003110765 A1 EP 1319836 A2	19-06-2003 18-06-2003
EP 0501463	A	02-09-1992	JP 2861429 B2 JP 4272471 A DE 69222334 D1 DE 69222334 T2 EP 0501463 A2 US 5277156 A	24-02-1999 29-09-1992 30-10-1997 14-05-1998 02-09-1992 11-01-1994